

## **OLEFIN POLYMERIZATION CATALYST SYSTEM**

### **ABSTRACT OF THE DISCLOSURE**

A catalyst system comprises 1) a group 4 organometallic catalyst and 2) an activator comprising a solid zirconium acid component and a metal alkyl. The catalyst system is inexpensive and is highly active for the polymerization of olefins. Preferred organometallic catalysts contain a cyclopentadienyl ligand, a phosphinimine ligand and or a ketimide ligand.